

AMENDMENTS TO THE CLAIMS

1-4. (Canceled)

5. (Currently Amended) A method for obtaining a recording pulse parameter ~~that is a method for~~ by reading standard recording pulse parameters from a writable optical disc to which are prerecorded standard recording pulse parameters defining recording pulse position information for each of plural possible mark length and space length combinations, correcting a standard recording pulse parameter and obtaining a best recording pulse parameter, said method comprising:

performing a first test write to the optical disc using position information for any one combination selected from all mark length and space length combinations in the standard recording pulse parameters;

reproducing the first test write and detecting a first jitter from the reproduced signal;

adding a first specific amount of change to the position information for the ~~above~~ one combination selected from all mark length and space length combinations in the standard recording pulse parameters, and performing a second test write to the optical disc using the changed position information;

reproducing the second test write and detecting a second jitter from the reproduced signal;

and

comparing the first jitter and second jitter, and selecting the position information used for the test write with less jitter,

wherein when there is first position information selected for ~~any~~ the one combination selected from all mark length and space length combinations, and second position information selected for a separate combination selected from all mark length and space length combinations, position information ~~intermediately~~ between the two combinations is obtained by interpolation from the first position information and the second position information.

6-9. (Canceled)

10. (Currently Amended) An apparatus for obtaining a recording pulse parameter ~~that is an apparatus for~~ by reading standard recording pulse parameters from a writable optical disc to which are prerecorded standard recording pulse parameters defining recording pulse position information for each of plural possible mark length and space length combinations, correcting a standard recording pulse parameter, and obtaining a best recording pulse parameter, said apparatus comprising:

a test writing ~~means for performing~~ device operable to perform a first test write to the optical disc using position information for any one combination selected from all mark length and space length combinations in the standard recording pulse parameters,

a jitter ~~detection means for reproducing~~ detector operable to reproduce the first test write and ~~detecting~~ detect a first jitter from the reproduced signal,

wherein the test writing ~~means adding~~ device is operable to add a first specific amount of change to the position information for the ~~above~~ one combination selected from all mark length

and space length combinations in the standard recording pulse parameters, and ~~performing~~
perform a second test write to the optical disc using the changed position information, and

wherein the jitter ~~detection means reproducing~~ detector is operable to reproduce the
second test write and ~~detecting~~ detect a second jitter from the reproduced signal, and

a selection ~~means for comparing~~ device operable to compare the first jitter and second
jitter, and ~~selecting~~ select the position information used for the test write with less jitter,

wherein when there is first position information selected for ~~any~~ the one combination
selected from all mark length and space length combinations, and second position information
selected for a separate combination selected from all mark length and space length combinations,
position information ~~intermediately~~ between the two combinations is obtained by interpolation
from the first position information and the second position information.

11. (New) A method for determining a recording pulse parameter for an optical disc
having prerecorded recording pulse parameters defining recording pulse position information for
each of a plurality of mark length and space length combinations, comprising:

performing a first test write to the optical disk using the prerecorded recording pulse
parameter for a first mark length and space length combination;

reproducing the first test write and detecting a first jitter from the reproduced first test
write;

adding a first correction value to the prerecorded recording pulse parameter to form a second recording pulse parameter and performing a second test write to the optical disc using the second recording pulse parameter;

reproducing the second test write and detecting a second jitter from the reproduced second test write;

comparing the first jitter with the second jitter;

selecting either the prerecorded recording pulse parameter or the second recording pulse parameter for the first mark length and space length combination based on the comparison of the first jitter with the second jitter;

wherein when a recording pulse parameter is selected for the first mark length and space length combination and a recording pulse parameter is selected for a second mark length and space length combination, a recording pulse parameter is calculated for a third mark length and space length combination by interpolation between the recording pulse parameters for the first and second mark length and space length combinations.

12. (New) An apparatus for determining a recording pulse parameter for a writable optical disc to which are prerecorded recording pulse parameters defining recording pulse position information for each of a plurality of mark length and space length combinations, said apparatus comprising:

a test writing device operable to perform a first test write to the optical disc using the prerecorded recording pulse parameter for a first mark length and space length combination,

operable to add a first correction value to the prerecorded recording pulse parameter to form a second recording pulse parameter, and operable to perform a second test write to the optical disc using the second recording pulse parameter;

a jitter detector operable to reproduce the first test write and the second test write and detect a first jitter from the reproduced first test write and a second jitter from the reproduced second test write; and

a selection device operable to compare the first jitter with the second jitter;

wherein the selection device selects either the prerecorded recording pulse parameter or the second recording pulse parameter based on the comparison of the first jitter with the second jitter; and

wherein when a recording pulse parameter is selected for the first mark length and space length combination and a recording pulse parameter is selected for a second mark length and space length combination, a recording pulse parameter is calculated for a third mark length and space length combination by interpolation between the recording pulse parameters for the first and second mark length and space length combinations.